

TOOTH RATIO:
 $\frac{R_1}{S_1} = 1.51$
 $\frac{R_2}{S_2} = 2.04$
 $\frac{R_3}{S_3} = 1.79$

RING GEAR

SUN GEAR

RATIO SPREAD

RATIO STEPS

REV/1

1/2

2/3

3/4

4/5

5/6

6.64

0.60

1.68

1.49

1.63

1.54

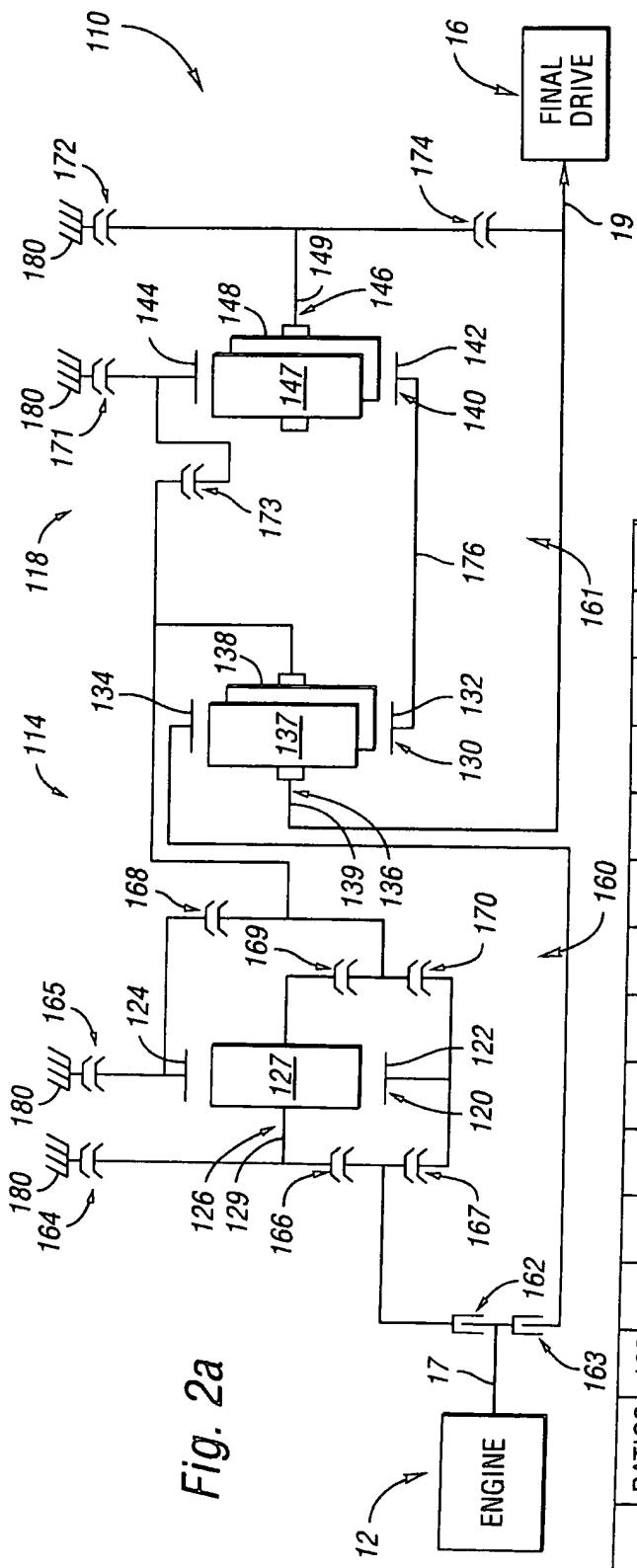
1.05

	RATIOS	62	63	64	65	66	67	68	69	70	71	72	73	74
REVERSE	-1.51	X				X								
NEUTRAL						X					X			
1	2.51	X			X									
2	1.49		X											
3	1	X		X			X				X			
4	0.61		X				X				X			
5	0.40	X			X	X				X		X	X	
6	0.38		X								X	X		

(X = ENGAGED CLUTCH)

Fig. 1b

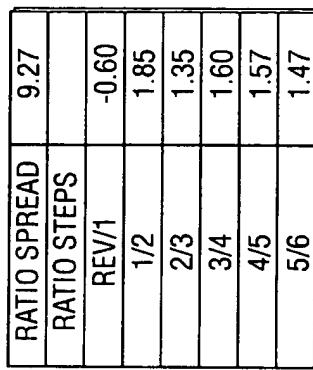
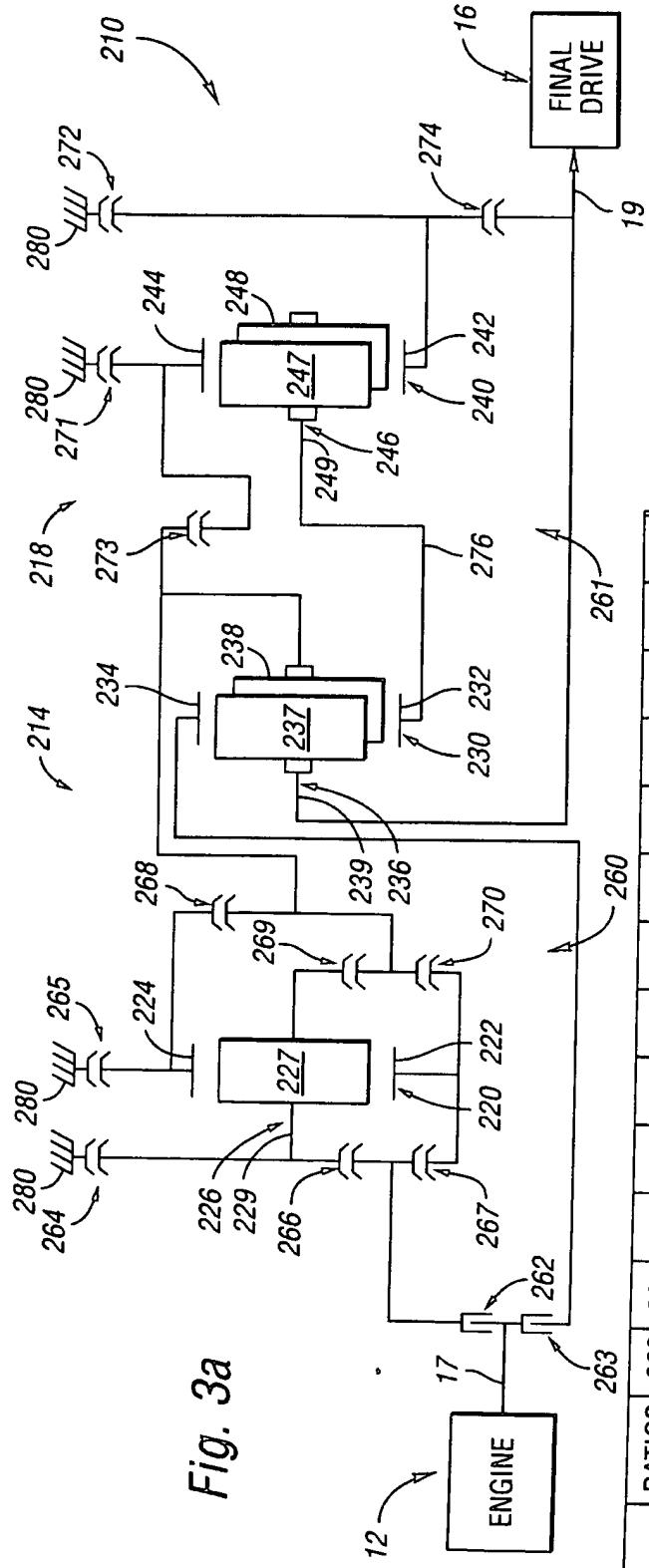
Fig. 2a



		163	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174
REVERSE	-1.51	X				X				X	X						
NEUTRAL																	
1	2.51	X			X			X		X							
2	1.35		X														
3	1	X		X					X		X						
4	0.62			X													
5	0.40	X						X	X				X		X		
6	0.27		X												X		X

(X = ENGAGED CLUTCH)

Fig. 2b



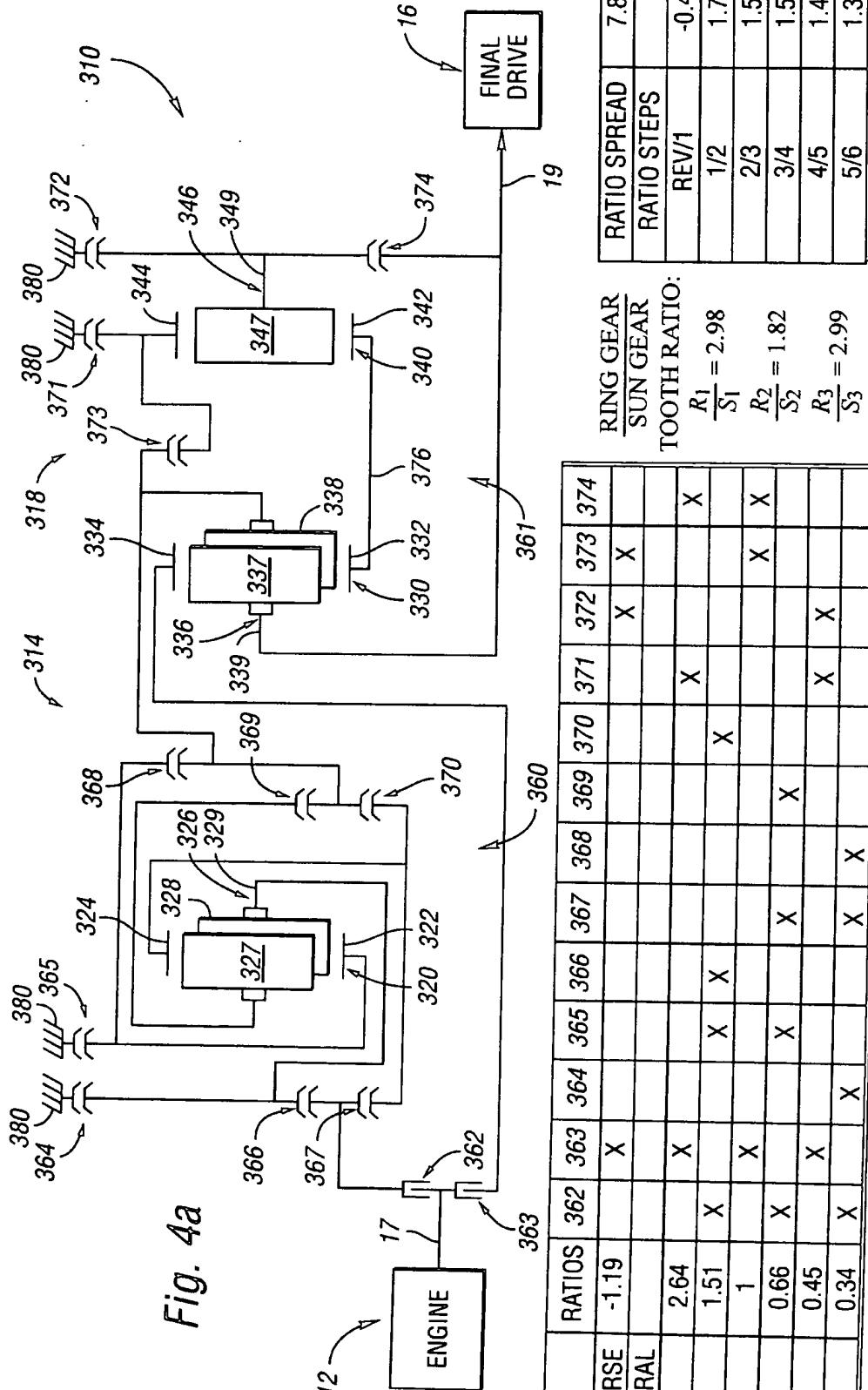
RING GEAR
SUN GEAR

	262	263	264	265	266	267	268	269	270	271	272	273	274
REVERSE	-1.51	X											
NEUTRAL			X		X		X						
1	2.51	X		X		X				X		X	
2	1.34		X										
3	1	X		X		X		X		X		X	
4	0.61		X							X		X	
5	0.40	X			X	X				X		X	X
6	0.27		X										

(X = ENGAGED CLUTCH)

Fig. 3b

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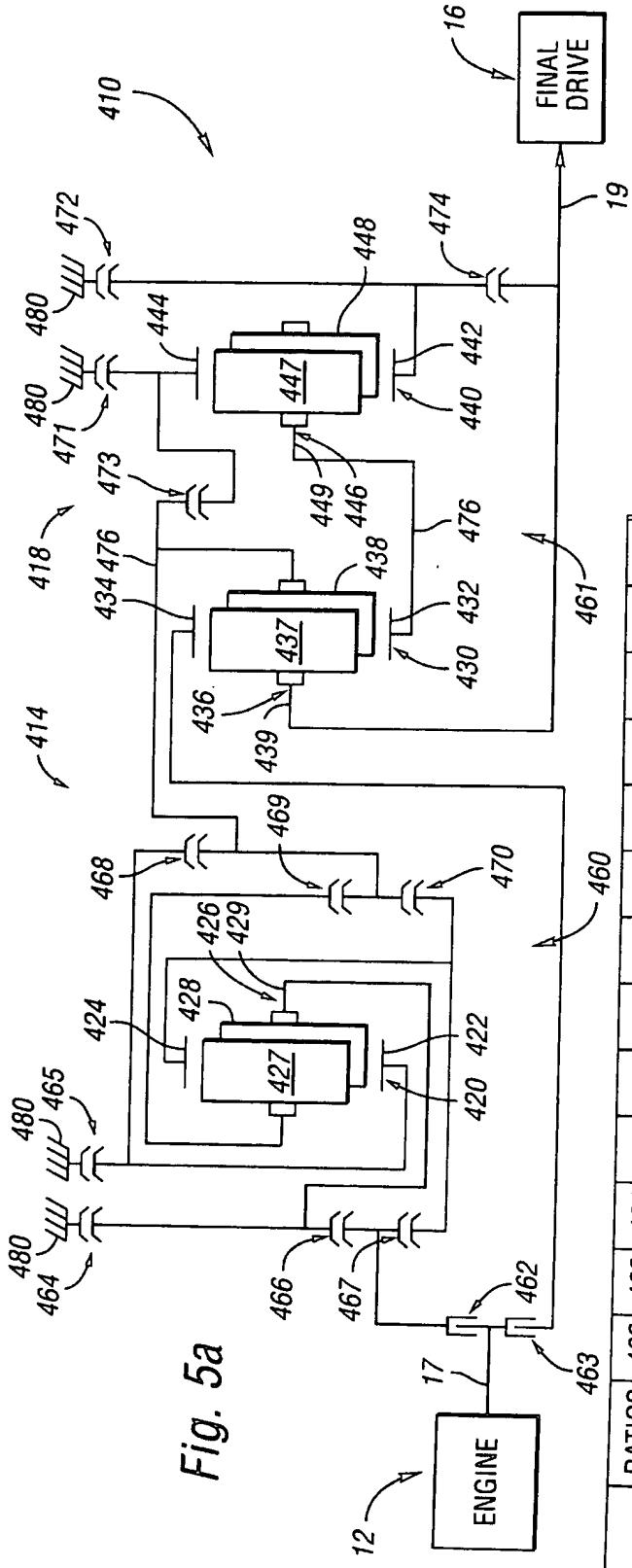


	RATIOS	362	363	364	365	366	367	368	369	370	371	372	373	374	RING GEAR SUN GEAR	TOOTH RATIO: $\frac{R_1}{S_1} = 2.98$	TOOTH RATIO: $\frac{R_2}{S_2} = 1.82$	TOOTH RATIO: $\frac{R_3}{S_3} = 2.99$	RATIO SPREAD RATIO STEPS
REVERSE	-1.19		X								X	X	X	X					7.88
NEUTRAL																			
1	2.64		X								X					REV/1			-0.45
2	1.51	X			X	X										1/2			1.76
3	1		X																
4	0.66	X			X	X					X	X							
5	0.45		X									X	X						
6	0.34	X		X				X	X			X	X						

(X = ENGAGED CLUTCH)

Fig. 4b

Fig. 5a

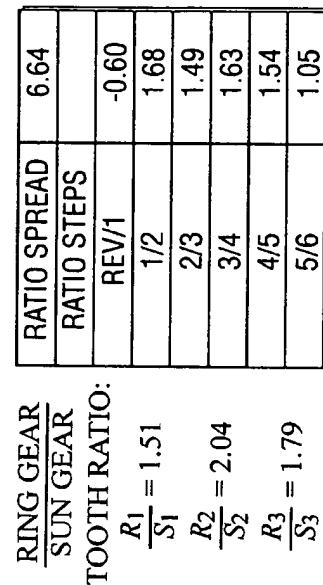
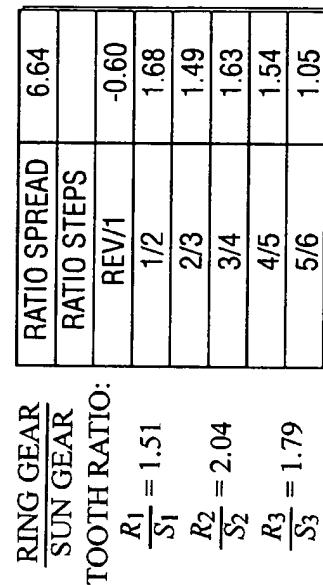
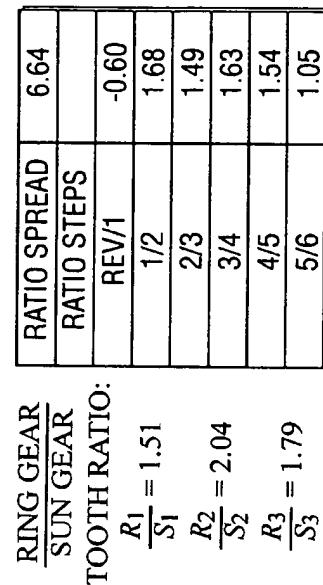
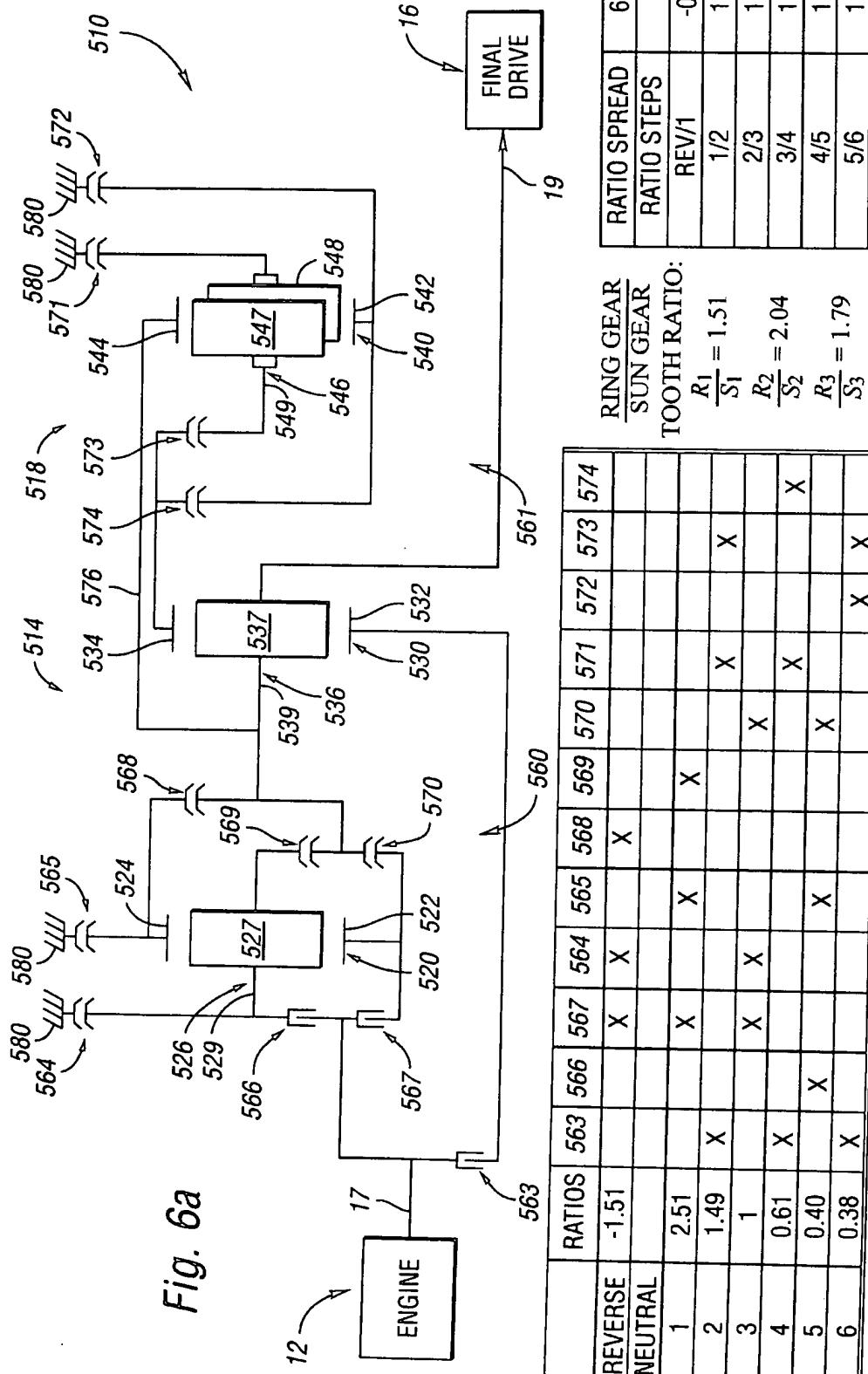


RING GEAR	SUN GEAR	TOOTH RATIO:	RATIO SPREAD	RATIO STEPS	REV/1	REV/1
$\frac{R_1}{S_1} = 2.98$					-0.33	
$\frac{R_2}{S_2} = 1.72$					1.41	
$\frac{R_3}{S_3} = 1.52$					1.51	
			6.32			1.24

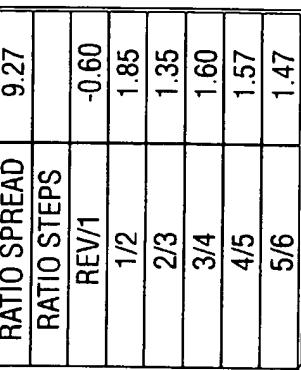
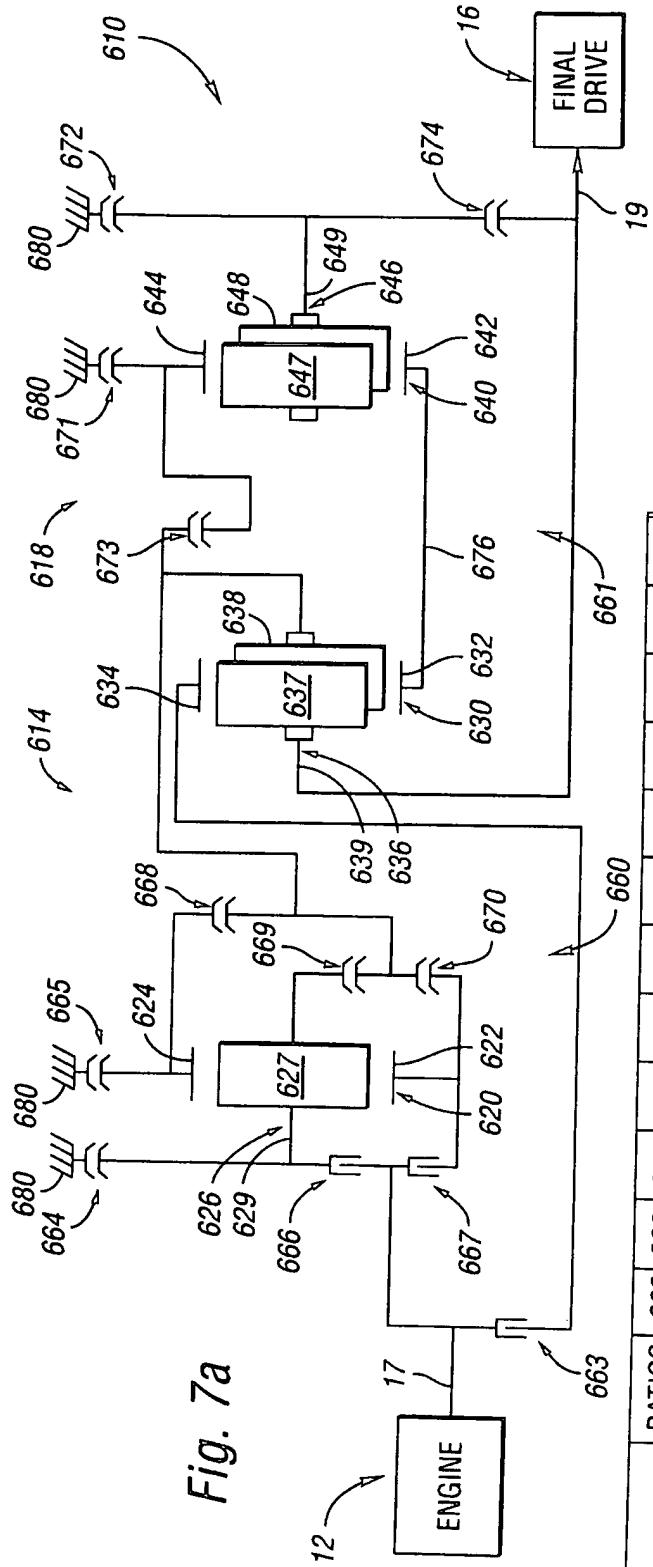
(X = ENGAGED CLUTCH)

Fig. 5b

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TOOTH RATIO: $\frac{R_1}{S_1} = 1.51$	RING GEAR SUN GEAR	
	$\frac{R_2}{S_2} = 2.66$	$\frac{R_3}{S_3} = 1.94$
REV/1	0.60	
1/2	1.85	
2/3	1.35	
3/4	1.60	
4/5	1.57	
5/6	1.47	

	RATIOS	663	666	667	664	665	668	669	670	671	672	673	674	
REVERSE	-1.51				X	X								
NEUTRAL														
1	2.51				X									
2	1.35	X				X								
3	1		X				X			X	X			
4	0.62	X						X						
5	0.40		X					X		X				
6	0.27	X								X		X		X

(X = ENGAGED CLUTCH)

Fig. 8a

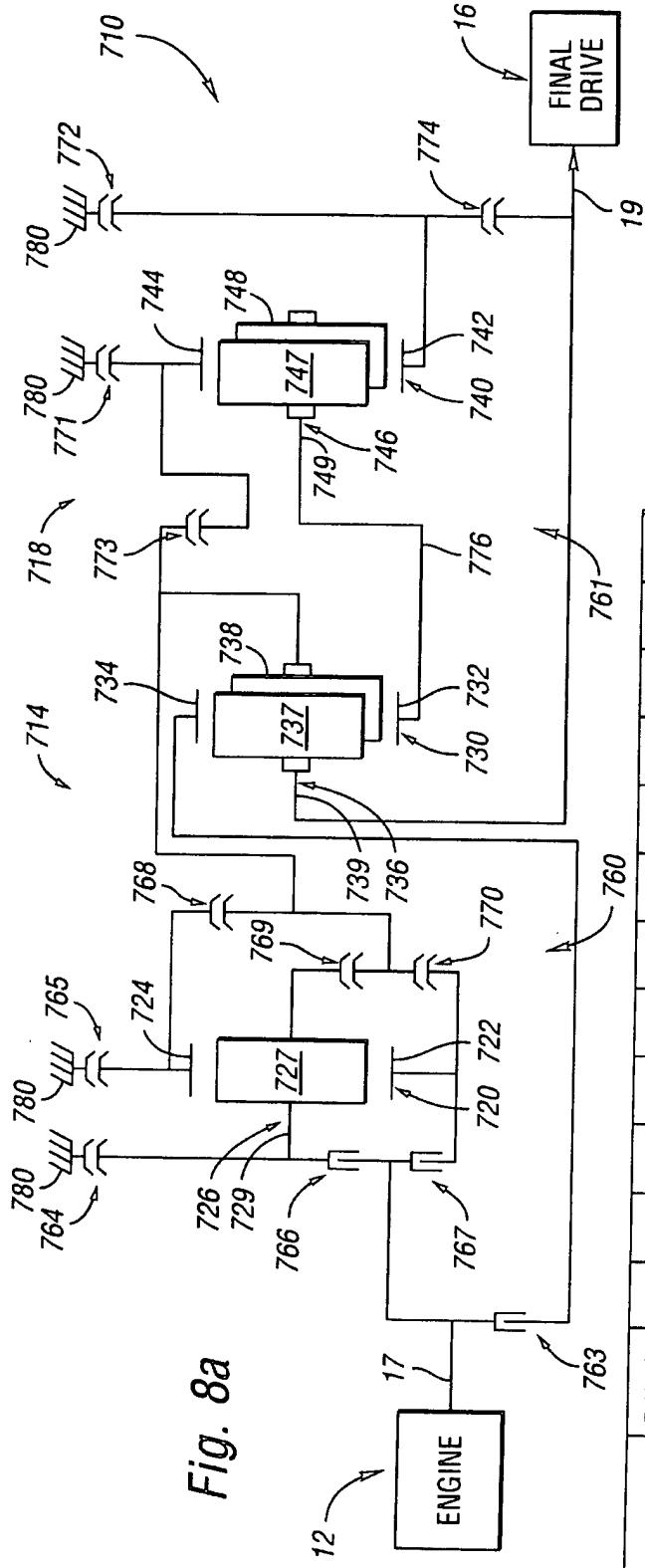


Fig. 8b

(X = ENGAGED CLUTCH)

RATIO SPREAD	9.27
RATIO STEPS	
REV/1	-0.60
1/2	1.85
2/3	1.35
3/4	1.60
4/5	1.57
5/6	1.47

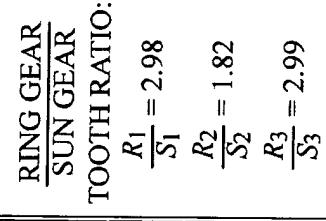
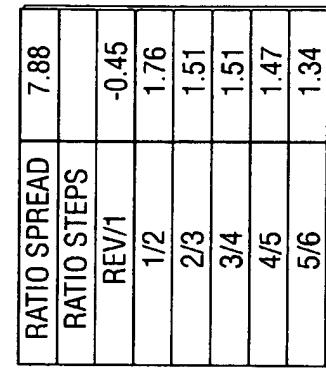
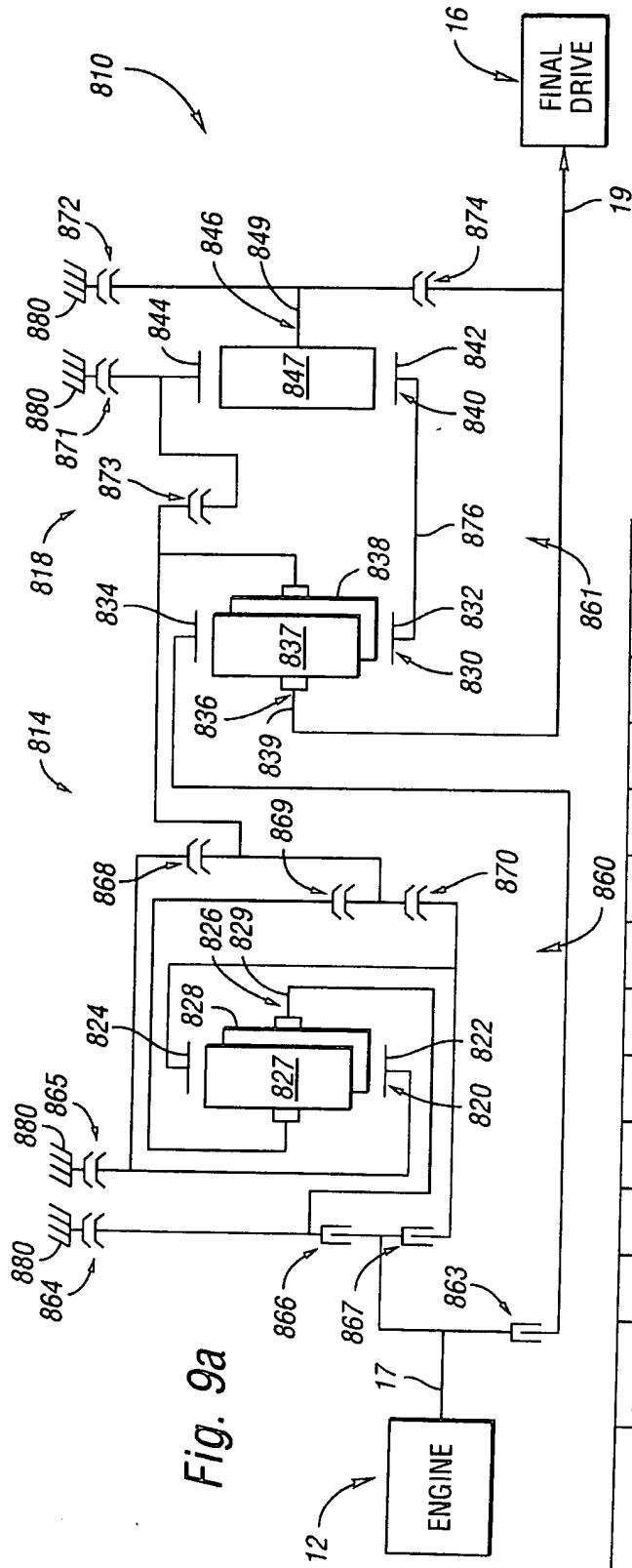
SUN GEAR
TOOTH RATIO:

$$\frac{R_1}{S_1} = 1.51$$

$$\frac{R_2}{S_2} = 2.56$$

$$\frac{R_3}{S_3} = 2.15$$

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	RATIOS	863	866	867	864	865	868	869	870	871	872	873	874	RING GEAR SUN GEAR	TOOTH RATIO:	RATIO SPREAD RATIO STEPS	7.88
REVERSE	-1.19	X								X	X						
NEUTRAL																	
1	2.64	X								X							
2	1.51		X							X							
3	1	X								X							
4	0.66		X							X							
5	0.45	X								X							
6	0.34		X	X						X	X						

(X = ENGAGED CLUTCH)

Fig. 9b

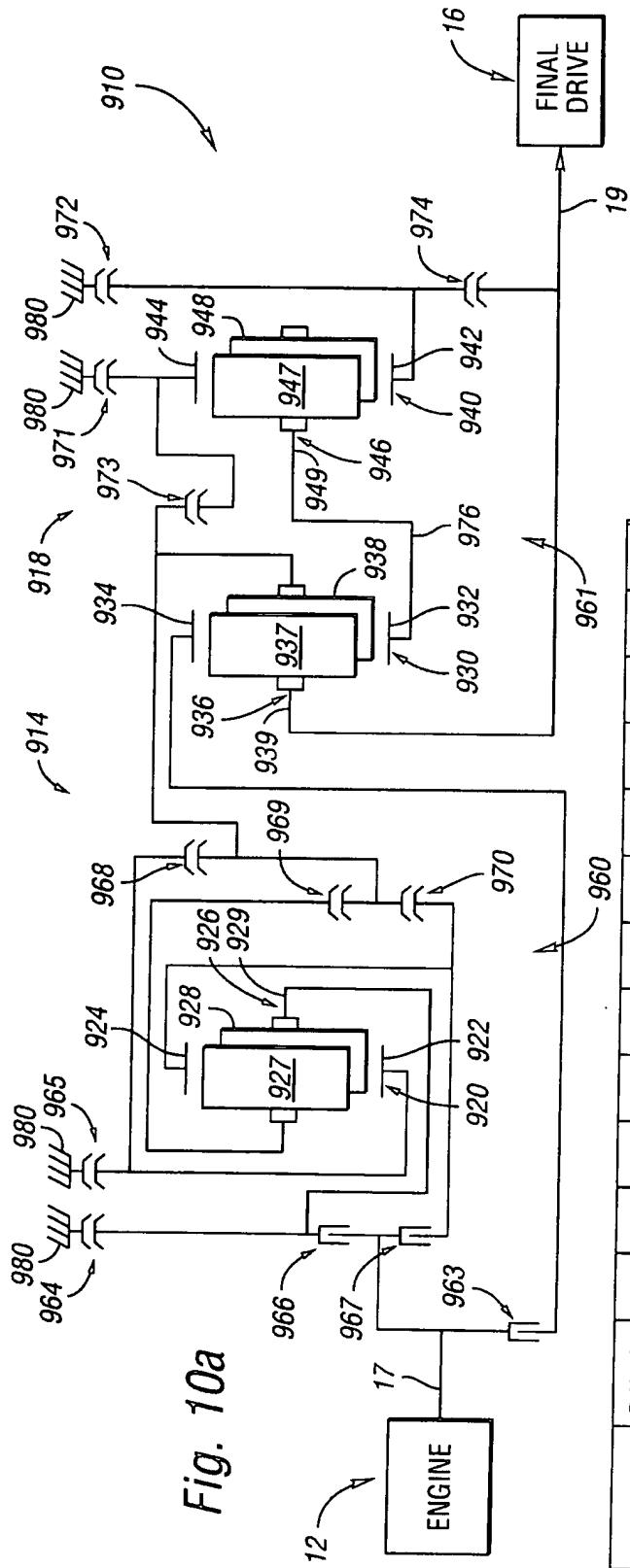
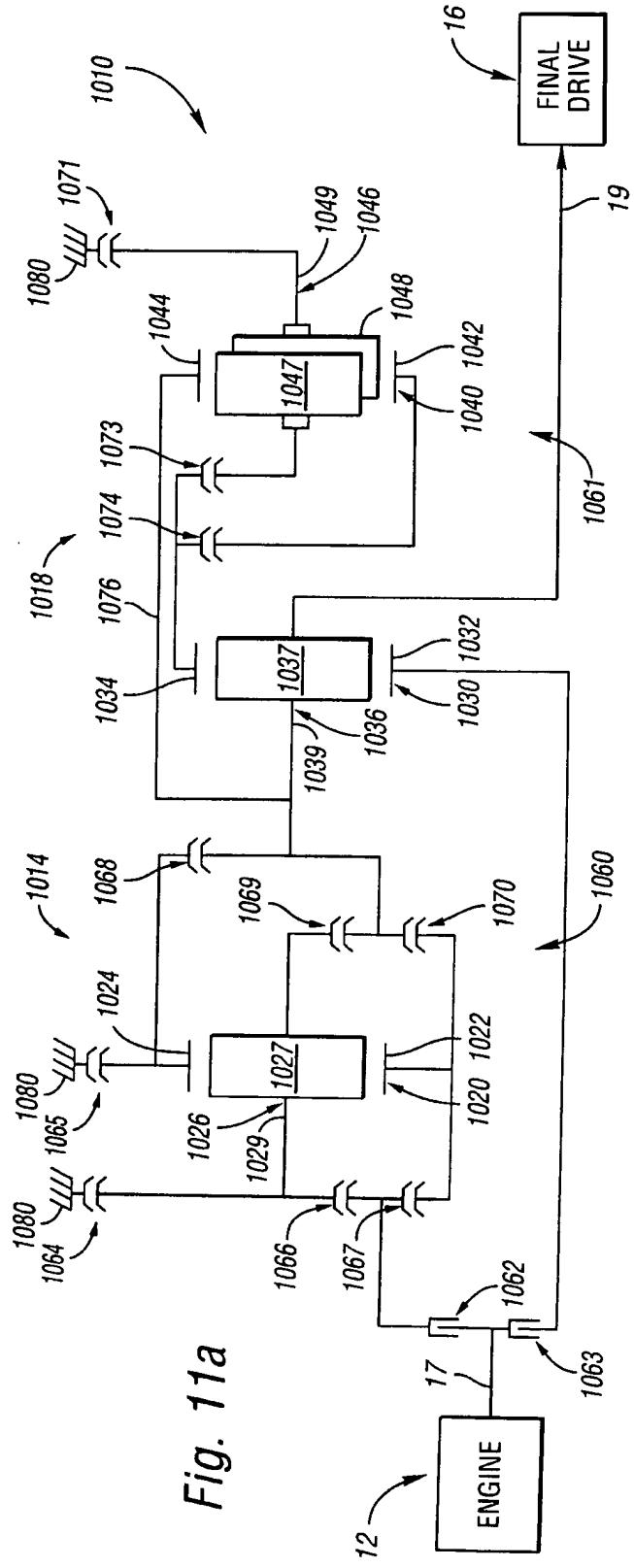


Fig. 10a

	RATIOS	963	966	967	964	965	968	969	970	971	972	973	974	RATIO SPREAD	6.32		
REVERSE	-0.70	X							X		X			RATIO STEPS			
NEUTRAL														REV/1	-0.33		
1	2.12	X							X	X							
2	1.51		X						X					$\frac{R_1}{S_1} = 2.98$	1.41		
3	1	X									X	X			$\frac{R_2}{S_2} = 1.72$	1.51	
4	0.66			X			X		X						$\frac{R_3}{S_3} = 1.52$	1.51	
5	0.42	X									X	X				$\frac{R_4}{S_4} = 1.59$	1.59
6	0.32				X	X		X		X						$\frac{R_5}{S_5} = 1.24$	1.24

(X = ENGAGED CLUTCH)

Fig. 10b



	RATIOS	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1073	1074	RING GEAR SUN GEAR	RATIO SPREAD	6.28	
REVERSE	-1.51	X		X		X		X						TOOTH RATIO:	RATIO STEPS		
NEUTRAL															REV/1	-0.60	
1	2.51	X		X		X		X						$\frac{R_1}{S_1} = 1.51$	1/2	1.68	
2	1.49		X		X		X		X					$\frac{R_2}{S_2} = 2.04$	2/3	1.49	
3	1	X		X		X		X		X		X		$\frac{R_3}{S_3} = 1.79$	3/4	1.63	
4	0.61		X		X		X		X		X		X		$\frac{R_4}{S_4} = 1.79$	4/5	1.54
5	0.40	X		X		X		X		X		X					

Fig. 11b

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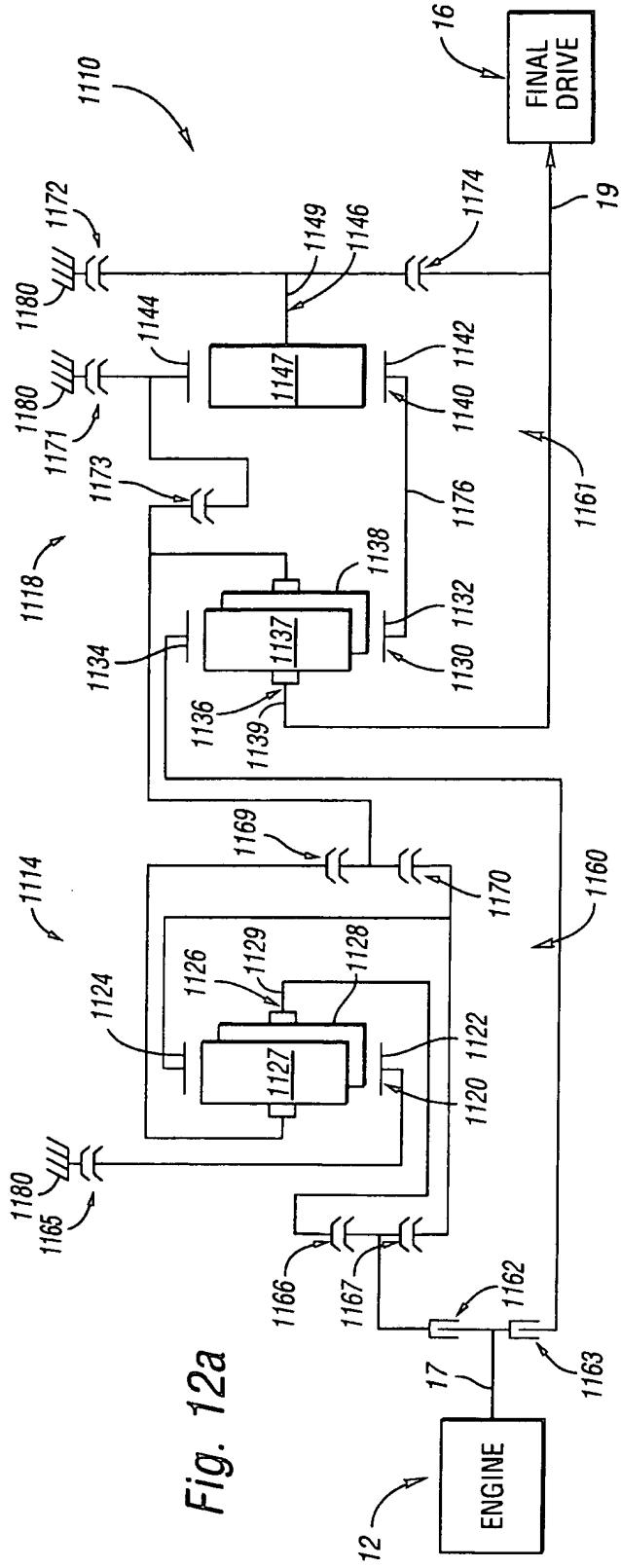


Fig. 12a

	RATIOS	1162	1163	1165	1166	1167	1169	1170	1171	1172	1173	1174
REVERSE	-1.19		X						X	X		
NEUTRAL												
1	2.64		X					X				
2	1.51	X		X	X							
3	1		X				X				X	
4	0.66	X		X	X		X	X				
5	0.45		X							X	X	

RATIO SPREAD	5.87
RATIO STEPS	
REV/1	-0.45
1/2	1.76
2/3	1.51
3/4	1.51
4/5	1.47

Fig. 12b